

## ABSTRACT

Radio section 103 multiplies modulated transmission signals A to D respectively by a carrier with a frequency of  $f_A$ ,  $f_B$ ,  $f_C$  or  $f_D$ , thereby performs 5 the frequency conversion, and outputs the resultant signals to switch 104. Switch 104 switches between frequency conversion sections  $f_A$  to  $f_D$  and between antennas A to D to connect, and timing control section 105 outputs a timing control signal to switching control 10 section 107 at time intervals for which timer 106 is preset. Switching control section 107 controls the switching of switch 104 according to switching patterns which are preset in switching pattern storage section 108 and which are each indicative of a connection 15 relationship between antennas A to D and frequency conversion sections  $f_A$  to  $f_D$ .

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